

SELECTED IMMUNOHISTOLOGIC TUMOR MARKERS

DETECTABLE ANTIGEN	TUMOR TYPE
Alpha-fetoprotein (AFP)	Germ cell and trophoblastic tumors, hepatocellular carcinoma
Beta-1-antitrypsin	Hepatocellular carcinoma
Carcinoembryonic antigen(CEA)	Gut, pancreas, cervix, uteri, lung, ovary, breast, urinary tract
Chromogranin	NET
Collagen, type IV; laminin	Sarcomas (neurogenic, smooth muscle)
Cyclin D-1	Mantle cell lymphoma
Cytokeratin	Nonspecific; broad range of carcinomas and sarcomas
CD68	Macrophages
Desmin	Sarcomas (smooth or skeletal muscle, glomus tumor); corpus uteri (connective tissue part)
Factor VIII; CD31, CD34	Sarcomas (vascular)
Gross cystic disease fluid protein (GCDFP-15)	Breast
Hormones, specific	Endocrine gland, gut, or pancreatic tumors
Human chronic gonadotropin (hCG)	Trophoblastic, breast, and other tumors
Human placental lactogen	Trophoblastic tumors
Ki67	Proliferation antigen
Immunoglobulin molecules	Lymphomas/leukemias
Involucrin	Squamous epithelia
Leukocyte common antigen (LCA)	Lymphomas/leukemias, histiocytic tumors
Lymphoid cell epitopes and activation markers	Lymphomas/leukemias
Milk fat globules	Breast(nonspecific)
Muramidase (lysozyme); CD68	Histiocytic tumors, myelogenous leukemia
Myelin basic protein	Sarcomas (neurogenic)
Myoglobin	Sarcomas (neurogenic, skeletal muscle), corpus uteri
Muscle-specific actin	Sarcomas (leiomyosarcoma, MFH)
Neurofilaments	NET; lung (small cell carcinoma)
Neuron-specific enolase	NET; lung (small cell carcinoma); breast carcinoma (some); melanoma
NKI/C3 or MB-5	Melanoma
Pancreatic carcinoma antigen	Pancreas, gut
Prostate-specific acid phosphatase, prostate-specific antigen (PAP, PSA)	Prostate
S-100 protein	Melanoma; sarcomas (neurogenic, cartilage); histiocytic tumors
Thyroglobulin	Thyroid
Thyroid Transcription Factor (TTF)-1	NSCLC (mostly adenocarcinomas)
Vimentin	Sarcomas (muscle, cartilage, vessels, bone synovial, epitheloid, MFH); renal cell carcinoma; lymphomas/leukemias; melanoma
MFH, Malignant fibrous histiocytoma; NET, neuroendocrine tumors (neuroblastic, Merkel cell, and carcinoid tumors; paragangliomas; pheochromocytoma).	

Reference: University of Florida Cytogenetics Lab.